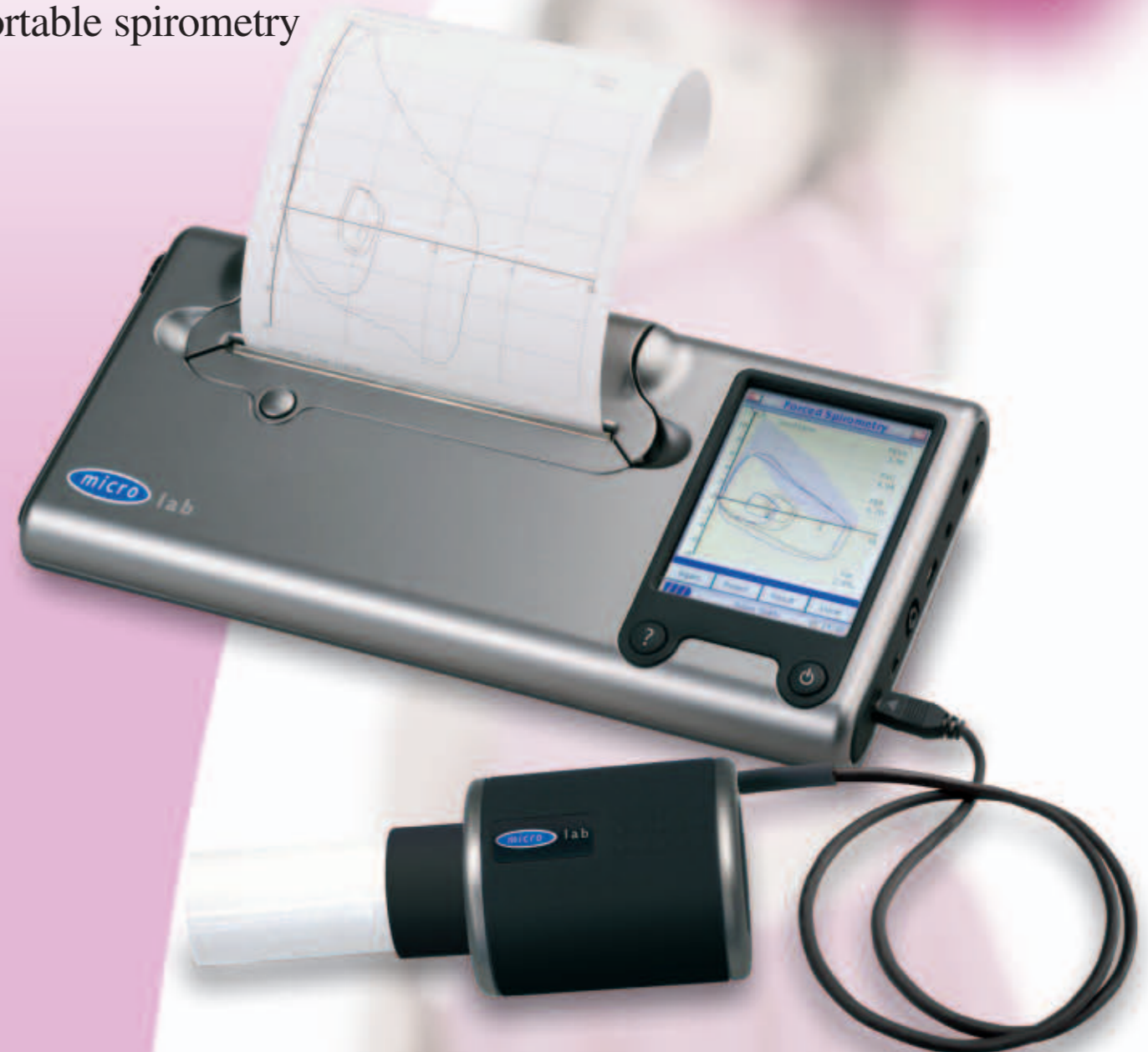


NEW

The future of
portable spirometry



Specifications

Spirometry

Measurements (forced): VC, FEV₇₅, FEV₁, FEV₃, FEV₆, FVC, PEF, FEV₇₅/VC, FEV₇₅/FVC, FEV₁/VC, FEV₁/FVC (FER), FEV₃/VC, FEV₃/FVC, FEV₇₅/FEV₆, FEV₁/FEV₆, FEF₂₅ (MEF₇₅), FEF₅₀ (MEF₅₀), FEF₇₅ (MEF₂₅), FEF₂₅₋₇₅ (MMEF), FEF₅₀/VC, FEF₅₀/FVC, MMEF/FVC (FEF₂₅₋₇₅/FVC), FV₁, FVC, PIF, FV₁/FVC (FIR), FIF₂₅ (MIF₇₅), FIF₅₀ (MIF₅₀), FIF₇₅ (MIF₂₅), R50 (FEF₅₀/FIF₅₀), MET₂₅₋₇₅, FET, MVV (ind)

Measurements (relaxed): EVC, IVC, IC, VT (TV), .Ti, Te, Ti/Ttot, VT/Ti (TV/Ti), IRV, ERV, FR

Tests per Subject: 5 relaxed VC manoeuvres and 8 forced manoeuvres for each baseline and two post examinations

Predicted Values: Various - depends upon national preference (including NIHANESIII)

Transducer: Micro Medical Gold Standard Bi-Directional Digital Volume

Resolution: 10ml volume 0.03l/s flow

Accuracy: +/- 3% to ATS recommendations - Standardisation of Spirometry 1994 update for flows and volumes

General

Storage : 2000 patients with tests including Flow/Volume loops and Volume/Time graphs

Printer Output (External Printers): For the latest listing of compatible Hewlett Packard printers visit the Micro Medical website at www.micromedical.co.uk

Printer Output (Internal Printer): 13mm/s (avg)

Power Supply: Input: 100-240V AC 50-60Hz Output: 12V 2.5A

Battery Pack: Rechargeable NiMH 8.4V 1Ah

Dimensions: 25.5cm x 12cm x 3.5cm Transducer 50 x 60 x 90mm

Weight: Excluding any transducers : 630g

Temperature: The instrument will operate in a uniform environment of 0°C - 40°C, out of direct sunlight

Operating Humidity: 30-90% non-condensing.

Storage Temperature: -20°C to +70°C

Storage Humidity: 10% to 90% RH

Connectivity: RS232 serial and USB 1.1

Bibliography

- 1 Dirksen A, Madsen F, Pedersen OF, Vedel AM, Jenson AK. Long term performance of a hand held Spirometer. Thorax 1996;51:973-976.
- 2 Otulana BA, Higenbottam T, Ferrari L. The use of home Spirometry in detecting acute lung rejection and infection following heart-lung transplantation. Chest 1990;97:953-7.
- 3 Pollard AJ, Mason NP, Barry PW, Pollard RC, Collier DJ, Fraser RS, Miller MR, Milledge JS. Effect of altitude on spirometric parameters and the performance of peak flow meters. Thorax 1996;51:175-178.
- 4 Godschalk, L, Brackel HJL, Peters JCK, Bogaard JM. Assessment of accuracy and applicability of a portable electronic diary card Spirometer for Asthma treatment. Respiratory Medicine, 1996;90:619-622.
- 5 Morris JF, Temple W. Spirometric 'Lung Age' estimation for motivating smoking cessation. Preventative Medicine, 1995;14 655-662.
- 6 BTS Guidelines for the management of Chronic Obstructive Pulmonary Disease (The COPD Guidelines Group of the Standards of Care Committee of the BTS) Thorax 1997;53 (Suppl 5):S4-6.
- 7 Wilson CM, Bakewell SE, Mr Miller et al. Increased resting bronchial tone in normal subjects acclimatised to altitude. Thorax 2002, 57: 400-404.
- 8 Bent Klug and Hans Bisgaard. Measurement of Lung Function in Awake 2-4 Year-Old Asthmatic Children During Methacholine Challenge and Acute Asthma. Paediatric Pulmonology 21:290-300 (1996).
- 9 American Thoracic Society. Standardization of spirometry: 1994 update. Am J Respir Crit Care Med 1995; 152: 1107-1136.
- 10 National clinical guideline on management of chronic obstructive pulmonary disease in primary and secondary care (National Institute of Clinical Excellence (NICE) /British Thoracic Society (BTS) Thorax 2004;59(Suppl 1): 1-232 doi: 10.1136/thx.2004.022707
- 11 Office spirometry, a practical guide of the selection and use of spirometers. Paul Enright
- 12 ATS/ERS Task Force "Standardisation of Lung Function Testing", Standardisation of Spirometry, European Respiratory Journal 2005: 26: 319-338.

The MicroLab (Cat. No. ML3500) is part of an extensive range of respiratory monitoring equipment manufactured by Micro Medical Ltd.

Micro Medical Ltd pursues a policy of continuing improvement in design, production and performance of its products. The right is therefore reserved to vary details at any time and without notice.



Micro Medical Limited

PO BOX 6, Rochester, Kent, ME1 2AZ, UK

Telephone 01634 893500

Fax 01634 893600

International +44 1634 893500

Email micromedical@viasyshc.com

www.micromedical.co.uk



PT Medical BV

Lorentzpark 12

9352 VJ Leek

Tel 0594-587 280

Fax 0594-587 288

www.pt-medical.nl



